

REMARKS

In the March 22, 2006 Office Action the Examiner required restriction to one of the following groups under 35 U.S.C. §121:

- Group I: Claims 1-32, drawn to a process of coupling an organic molecule to a surface of a Group IV element through an oxygen;
- Group II: Claims 33-37, drawn to a surface coupled to an organic molecule by the method of Group I;
- Group III: Claims 38-69, drawn to a process of coupling an organic molecule to a surface of a Group IV element through a sulfur; or
- Group IV: Claims 70-82, drawn to a redox active substrate comprising a silicon or germanium surface having a redox-active molecule attached through an Si-O, Si-S, Ge-O, or Ge-S bond;
- Group V: Claims 83-96, drawn to an apparatus for storing data comprising a comprising a silicon or germanium surface having a redox-active molecule attached through an Si-O, Si-S, Ge-O, or Ge-S bond;
- Group VI: Claim 97, drawn to a process for making an ordered molecular assembly through an Si-O or an Si-S bond; or
- Group VII: Claim 98, drawn to a process for making an ordered molecular assembly through a Ge-O or a Ge-S bond.

In response to this restriction requirement, Applicants elect Group I, claims 1-32.

In addition, with respect to the election of species, Applicants make the following elections:

- 1) For the organic molecule of claim 11 species (a-p), **Applicants elect species a “porphyrinic macrocycle”;**
- 2) For the surface of claims 1-7 (species 1-e) **Applicants elect species a “silicon”;**
- 3) For the contacting of the surface of claims 17-21 (species a-e) **Applicants elect species d “coating the surface”;** and
- 4) For the alcohol terminated organic molecule of claim 22, (species a-d), **Applicants elect species a “primary alcohol”.**

With respect to the election of species, the Examiner is respectfully reminded that if there is a generic claim, the Examiner is to include "a complete action on the merits of all the claims readable on the elected species" MPEP 809.02(c). In addition, to the extent all species fall within the limitations of a generic claim ultimately determined to be patentable the non-elected species should no longer be deemed to be withdrawn and claims to the additional non-elected species should be considered by the Examiner.

Applicants further note that the following elected pending claims are readable on elected species: Claims 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, and 32.

If a telephone conference would expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (510) 769-3513.

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Respectfully submitted,

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